DATE MAILED: 01/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)		
<u>R</u>	. Office Action Summary	10/031,35			EHRLINGER, FRIEDRICH J.	
		Examiner		Art Unit	`	
	The MAN INO DATE of this communication of	Roger L P		3681	I dina a a	
	The MAILING DATE of this communication a iod for Reply			·	iaress	
	A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).  tus	N. 1.136(a). In no eve reply within the statu od will apply and wi tute, cause the appl	ent, however, may a re utory minimum of thirty Il expire SIX (6) MON1 lication to become ABA	ply be timely filed (30) days will be considered timel 'HS from the mailing date of this cand		
	1) Responsive to communication(s) filed on $\underline{De}$	ecember 4, 20	<u>03</u> .			
2	a)☐ This action is <b>FINAL</b> . 2b)☒ Th	nis action is no	on-final.			
	3) Since this application is in condition for allow closed in accordance with the practice unde				e merits is	
Dis	position of Claims					
	4) Claim(s) 17-18, 21-29 is/are pending in the a 4a) Of the above claim(s) is/are withden 5) Claim(s) 17,18 and 24-29 is/are allowed. 6) Claim(s) 21-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from cor				
App	olication Papers					
	9)⊠ The specification is objected to by the Exami	iner.				
1	0) $\square$ The drawing(s) filed on is/are: a) $\square$ a	ccepted or b)	$\square$ objected to b	y the Examiner.		
	Applicant may not request that any objection to the		•			
	Replacement drawing sheet(s) including the corre	•		· •	• •	
	1) The oath or declaration is objected to by the	Examiner. No	ite the attached	Office Action or form P1	TO-152.	
	ority under 35 U.S.C. §§ 119 and 120					
13	2) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume 3. Acplication from the International Bure * See the attached detailed Office action for a lied.  Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78.  a) The translation of the foreign language processes.  Acknowledgment is made of a claim for dome reference was included in the first sentence of	ents have bee ents have bee riority docume eau (PCT Rule ist of the certifestic priority ur first sentence provisional apestic priority ur	in received. In received in Apents have been e 17.2(a)). Ified copies not inder 35 U.S.C. If of the specification has been der 35 U.S.C.	oplication No received in this National received. § 119(e) (to a provisiona ation or in an Application een received. §§ 120 and/or 121 since	al application) Data Sheet. a specific	
	chment(s)		<b>∆</b> □	(DTO 110) =	<b>7</b> -3	
1) LZ 2) [ 3) [	- · · · · · · · · · · · · · · · · · · ·	s)		ummary (PTO-413) Paper No( formal Patent Application (PT0		

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#### **DETAILED ACTION**

The following action is in response to the amendment filed for application 10/031,258 on November 10, 2003.

# Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

## It is suggested that applicant remove "means" from the abstract.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

The amendment filed on June 24, 2003 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: applicant has never disclosed an automatic transmission within the original specification. The word "shaltgetriebe" appears to be a generic word for gearbox (see attached German-English translation). However, to say that the word "gearbox" encompasses all types of transmissions, including automatic, may be too broad.

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Applicant has not disclosed any automatic transmission controls or components, and the original claims make specific reference to only a manual transmission.

Applicant is required to cancel the new matter in the reply to this Office Action.

Since "shaltgetriebe" literally translates to "transmission", it is suggested that applicant remove both "manual" and "automatic", thereby allowing for the possibility of an automatic transmission, while avoiding new matter problems.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman.

Sherman teaches an electrodynamic drive system for a vehicle located between a drive source 11 and a manual transmission (Col. 2, lines 1-4), having a single planetary gear set 10, which includes a sun gear 24, an internal gear 28, a planetary gear 25 and a planetary gear carrier 26, of which the planetary carrier is connected to the manual transmission, the internal gear is connected to the drive source and the sun gear is bound to at least one electric motor 14, with a shift clutch 33 between the planetary gear carrier and the sun gear operable to bypass the planetary gear set (Fig. 1), and a control. Sherman lacks the teaching of said electric motor being regulated in a 4-quadrant operation, however, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Sherman to employ an electric motor and control operable in a 4-quadrant operation, since it has been held that where the general conditions of a

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claim are disclosed in prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman in view of Toyoda. Sherman teaches an electrodynamic drive system for a vehicle located between a drive source 11 and a manual transmission (Col. 2, lines 1-4), having a single planetary gear set 10, which includes a sun gear 24, an internal gear 28, a planetary gear 25 and a planetary gear carrier 26, of which the planetary carrier is connected to the manual transmission, the internal gear is connected to the drive source and the sun gear is bound to at least one electric motor 14, with a shift clutch 33 between the planetary gear carrier and the sun gear operable to bypass the planetary gear set (Fig. 1). Sherman lacks the teaching of a plurality of electric motors on the sung gear acting upon the planetary drive. Toyoda teaches a transmission, wherein a plurality of motors 62,63 act upon a single component 86 of a reduction drive. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Sherman to employ a plurality of electric motors in view of Toyoda in order to provide maximum efficiency in different operational regions (Col. 3).

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman in view of Schneider '618. Sherman teaches an electrodynamic drive system for a vehicle located between a drive source 11 and a manual transmission (Col. 2, lines 1-4), having a single planetary gear set 10, which includes a sun gear 24, an internal gear 28, a planetary gear 25 and a planetary gear carrier 26, of which the planetary carrier is connected to the manual transmission, the internal gear is connected to the drive source and the sun gear is bound to at least one electric motor 14, with a shift clutch 33 between the planetary gear carrier and the sun gear operable to

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bypass the planetary gear set (Fig. 1). Sherman lacks the teaching of said shift clutch being a dog clutch. Schneider teaches a shift clutch 32 that comprises of a dog clutch. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Sherman to employ a dog clutch in view of Toyoda in order to provide a simpler clutch actuating structure.

### Allowable Subject Matter

Claims 17-18, and 24-29 are allowed.

#### **FACSIMILE TRANSMISSION**

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

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I hereby certify that this correspondence is being facsimile transmitted to the Patent and
Trademark Office (Fax No. (703) 305-3597) on(Date)
Typed or printed name of person signing this certificate:
(Signature)

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roger L Pang whose telephone number is 703-305-0445. The examiner can normally be reached on 5:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 703-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9326.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2168.

Roger L Pang Patent Examiner Art Unit 3681

January 12, 2004